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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/553,804	12/01/2005	Tom Jacobsen	05139	6086
23338 7590 03/31/2008 DENNISON, SCHULTZ & MACDONALD 1727 KING STREET SUITE 105 ALEXANDRIA, VA 22314			EXAMINER	
			BEACH, THOMAS A	
			ART UNIT	PAPER NUMBER
			3671	
			MAIL DATE	DELIVERY MODE
			03/31/2008	PAPER

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/553,804	JACOBSEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	THOMAS A. BEACH	3671				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>20 De</u>	ecember 2007					
•	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
ologod in accordance with the practice and a	7 parte gaayre, 1000 0.2. 11, 10	.0.2.2.0.				
Disposition of Claims						
4) Claim(s) 14-23 is/are pending in the application	☑ Claim(s) <u>14-23</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>14-23</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>20 December 2007</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P	ate				
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	6) Other:	atom / ppiloution				

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 14-17 and 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jacobsen et al 6,966,132 in view of Flesen 6,145,223. Jacobsen shows apparatus for removal of cuttings from a borehole (col. 1, lines 13-15) with the use of an ejector, having a first unit in the form of an ROV (1) with a rigidly attached ejector pump (12) provided with a connecting hose (unnumbered hose leading to 11) terminated at an opposite end in a first coupling part (11) provided with a second coupling part (unnumbered part of 5 that connects 11 to 5), a second unit comprising an ejector (7) attached a suction portion to a suction hose (8), said first coupling part (unnumbered connection of 11 to 5), but does not show said first coupling part and said second coupling part being constructed and arranged for selective connection to one another to form a coupling between the ejector and the connecting hose. However, Flesen shows a similar apparatus for removal of cuttings from a borehole with the use of an ejector 34 and ROV 26 having a first coupling part and said second coupling part being constructed and arranged for selective connection to one another to form a coupling between the ejector and the connecting hose between ejector 34 and

connecting hose 40 that includes selective coupling arrangement (fig 2; claim 21) capable of being rapidly connected. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Jacobsen, as taught by Flesen, to include selective coupling arrangement for the predictable benefit of easily connection and replacement of hose elements if selectively coupled.

As concerns claim 15, the combination shows the suction hose has an inlet end opposite to the ejector comprising a first coupling part of a second coupling, arranged to be selectively connected to a second coupling part of the second coupling of a guide base at a borehole.

As concerns claim 16, the combination shows the ejector pump (Jacobsen, 12) supplying the ejector (7) with water, is powered by the power supply (3) for the ROV (Jacobsen, 1).

As concerns claim 17, the combination shows the ejector (Jacobsen, 7) is arranged at the outlet end of the suction hose (Jacobsen, 5).

As concerns claim 19, the combination (Jacobsen) shows the suction hose (6) and the ejector (7) has a common, substantially constant cross section.

As concerns claim 20, the combination (Jacobsen) shows the outlet end of the ejector (7) is shaped with a gradually increasing cross section.

3. Claims 18 and 22-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jacobsen et al 6,966,132 and Flesen 6,145,223 in view of Edvardsen 6,877,565. The combination shows the element of claims 22-23 as detailed above, but does not show a discharge hose or pipe connected to the outlet side of the ejector so that the

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sediment can be transported further away from the borehole or connected directly to a guide base around a borehole with a suitable coupling while the outlet side of the ejector is connected to a discharge hose, said remote operating unit 14 preferably being connected to the ejector by means of a particular extension hose. However, Edvardsen shows a similar apparatus for removal of cuttings from a borehole (16) with the use of an ejector a discharge hose 22 or pipe 22 connected to the outlet side of the ejector so that the sediment can be transported further away from the borehole or connected directly to a guide base around a borehole with a suitable coupling while the outlet side of the ejector is connected to a discharge hose, said remote operating unit 14 preferably being connected to the ejector by means of a particular extension hose (fig 1).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination, as taught by Edvardsen, to include the coupling to the borehole arrangement and hose for the predictable result of improved versatility of the apparatus for various uses.

## Response to Arguments

4. Applicant's arguments filed 12/20/07 have been fully considered but they are not persuasive in view of the rejection above.

### Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas A. Beach whose telephone number is 571.272.6988. The examiner can normally be reached on Monday-Friday, 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Will can be reached on 571.272.6998. The fax phone number for the organization where this application or proceeding is assigned is 571.273.8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thomas A. Beach

/Thomas A Beach/ Primary Examiner, Art Unit 3671

March 31, 2008

THOMAS A. BEACH Primary Examiner Group 3600